



MAT 240 Calculus III Spring 2010

Section : 52036

Where: MW CM453, 5:00-7:05pm

Instructor: Dr. Phil Clark

Office: CM428

Phone: (480) 425-6753

Office Hours: MW 3:30-5, TTh 4-5

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Web Page: <http://www.sc.maricopa.edu/clark/>

Textbooks: *Calculus (Multivariable)*, Fourth Edition by Hughes-Hallett, Gleason, McCallum, et al. Wiley & Sons, 2002. ISBN: 0-471-40826-3

Prerequisite: A grade of 'C' or better in MAT 230 Calculus II or the equivalent.

Course Competencies: Solve geometry and physics problems using vectors. Analyze the motion of an object using vector-valued functions. Classify and analyze the behavior of functions of several variables. Interpret the geometry of rectangular, polar, cylindrical and spherical coordinate systems. Solve optimization and other applied problems using partial derivatives. Set up and compute double and triple integrals in any order of integration using rectangular, polar, cylindrical, and spherical coordinates. Solve physical problems using line integrals and vector fields. Compare alternate solution strategies, including technology. Communicate process and results in written and verbal formats.

Homework: Homework problems will be assigned for each section we cover. You are expected to complete each problem by the given due date. There will be homework quizzes given each class which will be taken directly from the homework. You will be allowed to use your homework to complete the quiz so it is to your benefit to have the problems completed on time. You also may be asked to complete and turn in homework problems using maple.

Computer Labs: There will be computer lab assignments. Students will be expected to complete all lab assignments. These labs will be graded. Labs are to be printed out showing all relevant code and turned in on time. No late labs will be accepted! Free student copies of maple are available, check website for info.

Graphing Calculator: A graphing calculator is required for this course. The suggested calculators include the TI-83 or TI-83 plus and the Casio CFX-9850GB plus. NOTE: Calculators with QWERTY keyboards or those which do symbolic algebra such as the TI-92s, TI-89s, Casio FX2 or 9970G's cannot be used in class or during an exam. You are responsible for knowing how your calculator works! There are also calculator handouts etc on my website.

Attendance: Attendance will not be required but success in class has been shown to have a direct link with showing up. If attendance slips I will notice so please come to class.

Makeup Tests and Quizzes: Will be given at the discretion of the instructor and only in the case of verified medical or other emergency. The instructor must be notified before the exam is given. Email or call the instructor's office and leave a message.

Point Distribution	
Homework	20%
Computer Labs	20%
Exam #1	10%
Exam #2	10%
Exam #3	10%
Exam #4	10%
Final Exam	20%

Grading Scale:

- A (90% and above)
- B (80%–89.99%)
- C (70%–79.99%)
- D (60%–69.99%)
- E (below 60%) .

Unrestricted Withdrawal Deadline (no signature): Fri., Mar 5th

Restricted Withdrawal Deadline (signature required): Mon., April 26th

Honor Policy: The highest standards of academic integrity are expected of all students. The failure of any student to meet these standards may result in suspension or expulsion from the College or other sanctions. Violations of academic integrity include, but are not limited to, cheating, fabrication, tampering, plagiarism or facilitating such activities.

Math/Science Center: The Math/Science Center is available for all levels of mathematics. Students can working individually or in groups and receive help when needed.

Location: CM 441A (northeast corner of the CM building)

Hours: Monday - Thursday 8:00 AM - 7:30 PM; Friday 8:00 AM - 2:00 PM (8/21/2005 - 12/14/2005); Saturday 10:00 AM - 2:00 PM (9/9/2005 - 12/9/2005)

Positive Learning Environment: Commitment between students and teacher. Details on the website.

Disability Resources: Students with disabilities who believe that they may need accommodations in this class are encouraged to contact Disability Resources & Services office, Building SC-144, 480-423-6517.

Disclaimer: The instructor reserves the right to modify this syllabus to better meet the needs of the class.